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4. (Amended) A sensor array according to claim 2 [or 3], wherein the conductive elements [tracks] are covered by an electrically insulating layer.
6. (Amended) A sensor array according to [any one of] claim[s] 1 [to 5], wherein the sheet is flexible.
7. (Amended) A sensor array according to [any one of] claim[s] 1 [to 4], wherein the sheet comprises a series of sections which are interconnected such that at least some of the conductors extend across the interconnections between the sections.
8. (Amended) A system for monitoring conditions within a vessel a wall of which defines an enclosed space, comprising a sensor array in accordance with [any preceding] claim 1, wherein the sensors are distributed within the vessel, a first monitoring unit is located within the vessel and connected to each of the sensors, and a second monitoring unit is located outside the vessel, the first monitoring unit comprising means for converting sensor output signals into transmission signals which are transmissible through the vessel wall, and the second monitoring unit comprising means for detecting the transmission signals outside the vessel walls and deriving data representative of conditions within the vessel from the transmission signals.
11. (Amended) A system according to [any one of] claim[s] 8 [to 10], wherein the vessel incorporates a window, and the first monitoring unit is arranged to transmit optical transmission signals through the window to the second monitoring unit.
13. (Amended) A system according to claim 11 [or 12], wherein the optical transmission signals are infra-red signals.
14. (Amended) A system according to claim 8 [, 9 or 10], wherein the transmission signals are radio telemetry signals to which at least a part of the vessel wall is transparent.
18. (Amended) A system according to [any one of] claim[s] 15 [to 17], wherein the vessel incorporates a window, and the first monitoring unit is arranged to transmit optical transmission signals through the window to the second monitoring unit.